

SyncMaster U70

# LCD Monitor

## User Manual

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# Safety Instructions

## Notational



Note

These safety instructions must be followed to ensure your safety and prevent property damage.

Make sure to read the instructions carefully and use the product in the correct manner.

### Warning / Caution



Otherwise, it may result in death or personal injury.

Otherwise, it may result in personal injury or property damage.

## Installation



Be sure to contact an authorized Service Center when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.



▶ When installing the product in a cabinet or rack, make sure that the front end of the bottom of the product does not project out.

- Otherwise, it may fall or cause personal injury.
- Use a cabinet or rack of a size appropriate to the product.



▶ Do not use a humidifier or kitchen table near the product.

- Otherwise, this may result in electric shock or fire.



▶ Put down the monitor carefully.

- Failing to do so may damage the monitor.



▶ Do not drop the monitor when moving it.

- This may cause damage to the product or the person carrying it.



▶ Do not install the product in a location low enough for children to reach.

- Otherwise, it may fall and result in personal injury.

## Others



▶ Do not insert any metal, such as chopsticks, coins, pins and steel, or flammable objects, such as matches or paper, inside the product (input and output terminals, etc).

- Otherwise, this may result in electric shock or fire.
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## Safety Instructions

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▶ The product is a high voltage product. Ensure that users do not disassemble, repair or modify the product themselves.

- Otherwise, this may result in electric shock or fire. If the product needs to be repaired, contact a Service Center.

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# Introduction

## Package Contents



### Note

Please make sure the following items are included with your monitor.

If any items are missing, contact your dealer.

Contact a local dealer to buy optional items.

## Unpacking



USB Monitor

### Manuals



Quick Setup Guide



Warranty Card



User's Guide

(Not available in all locations)

### Cables



USB Cable

### Others



Cleaning Cloth



### Note

Cleaning Cloth is only provided for highly polished black products as a product feature.

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## Your Monitor

### Front



1 ▼

Use this button to decrease the screen brightness for the 7" USB monitor. The LED blinks when the screen brightness is decreased to the minimum or when a screen brightness adjustment is completed.

2 ▲/☀

Use this button to increase the screen brightness for the 7" USB monitor. The LED blinks when the screen brightness is increased to the maximum or when a screen brightness adjustment is completed.

3 Power button [⏻] / Power indicator

Press the Power button to turn the 7" USB monitor on or off. The Power indicator is displayed in blue when operating normally.

- Please activate the afterimage prevention function before using the 7" USB auxiliary monitor.
- Activating the function

Turn off the USB monitor and hold down the Power button for five (5) seconds. The monitor is turned on again and the afterimage prevention program is activated while the LED blinks twice.

- Deactivating the function

Turn off the USB monitor and hold down the Power button for five (5) seconds. The monitor is turned on again and the afterimage prevention program is deactivated while the LED blinks once.

- What is the afterimage prevention function?

If you use the USB auxiliary monitor with the same image remaining on the screen for a long period of time, an afterimage may develop on the panel. The afterimage prevention function reduces afterimages on the panel by turning the USB auxiliary monitor on and off automatically for a short time (about 0.1 seconds) every thirty (30) minutes.


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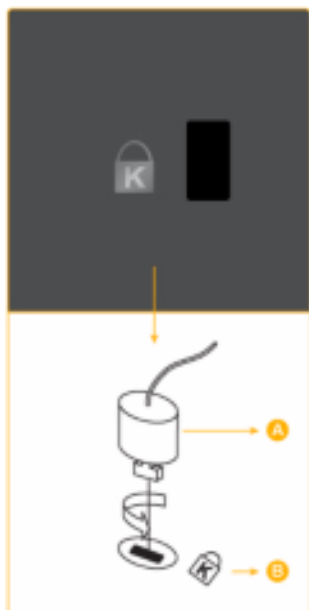
## Rear



The configuration at the back of the product may vary from product to product.



Connect the terminal  of the USB monitor to the USB terminal of the PC using a USB cable.

**Kensington Lock**

The Kensington Lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for proper use. The locking device has to be purchased separately.



The location of the Kensington Lock may be different depending on its model.

**Using the Anti-Theft Kensington Lock**

1. Insert the locking device into the Kensington slot on the Monitor (B) and turn it in the locking direction (A).
2. Connect the Kensington Lock cable.

3. Fix the Kensington Lock to a desk or a heavy stationary object.

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# Connections

## Connecting the USB Monitor

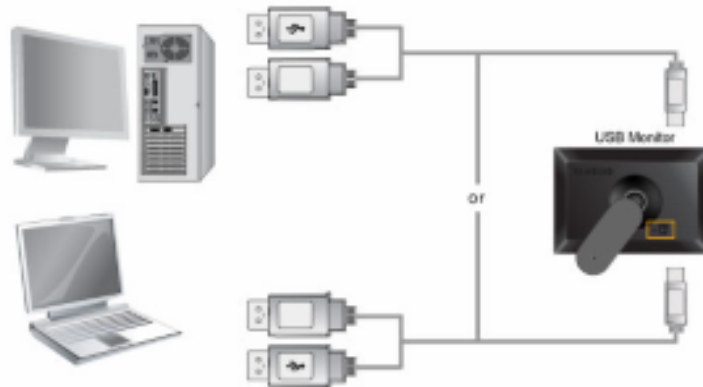
- System Requirements

CPU : 1.73GHz or Later

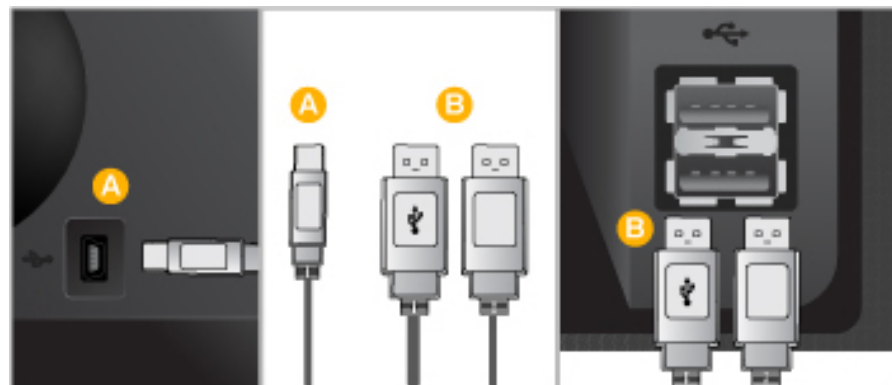
OS : Windows XP Service Pack2 or later.

RAM : 512 MB RAM or more

USB : 1.1 or higher (USB 2.0 recommended)



1. Connect the terminal  of the USB monitor to the USB terminal of the PC using a USB cable.



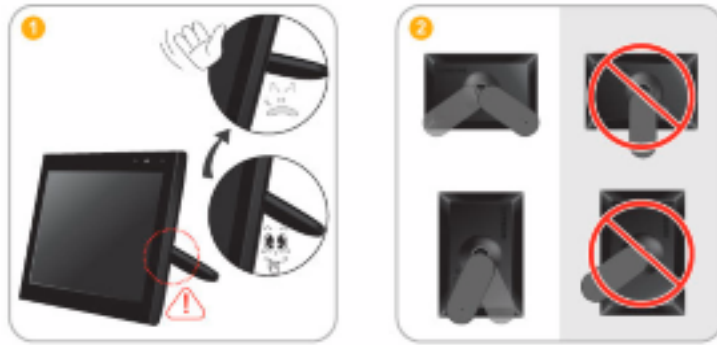
### Note

As power is supplied through a USB port, two (2) USB ports are used.

For more information on the driver installation and usage of the USB monitor, refer to Installing the 7" USB Monitor Driver.

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1. When adjusting the angle of the USB auxiliary monitor stand, do not use too much force. This may cause the stand to break.
2. Make sure to use the 7" USB monitor after properly adjusting the angle of its stand.

This may cause the center of gravity of the product to change, leading causing the product to fall resulting in damage or a malfunction.

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# Using the Software

## Installing the 7" USB Monitor Driver

- System Requirements  
CPU : 1.73GHz or Later  
OS : Windows XP Service Pack2 or later.  
RAM : 512 MB RAM or more  
USB : 1.1 or higher (USB 2.0 recommended)

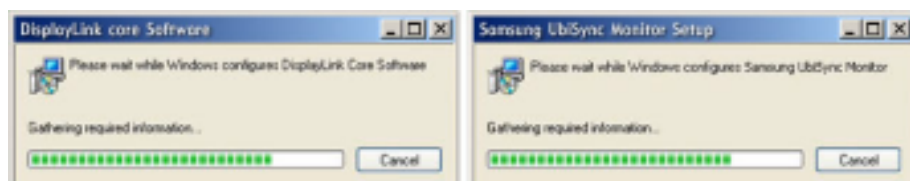
## Installing Your USB Monitor

- Make sure to connect the USB cable and begin the installation after your PC has booted.
- The Setup program requires about one minute for the installation. If you turn the power off or remove the USB cable while the Setup program is running, it may cause an error with the PC or the Windows operating system.
- The optimal resolution for this USB monitor is 800x480.

1. Insert CD into the CD-ROM drive. Click "USB Monitor Driver"
2. Click "I Accept".



3. The progress window appears, as shown in the figure below.



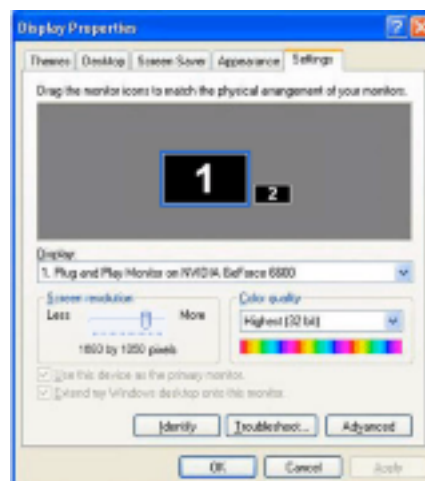
4. If you connect your USB monitor to your PC, it recognizes the monitor and the "Found New Hardware" wizard is displayed, as shown in the figure below.
-



When setup is finished, a monitor icon is created in the system tray at the bottom of the monitor screen, and the information for the installed USB monitor is displayed.



5. When the installation is completed, configure the following settings to use multiple monitors.
1. Right-click on the "Windows Desktop" and select "Properties" from the displayed menu. The "Display Properties" window appears.
2. Select the "Settings" tab. A list of connected USB monitors is displayed.



3. Arrange the monitors displayed in the 'Display Properties' window in the order they are actually used.



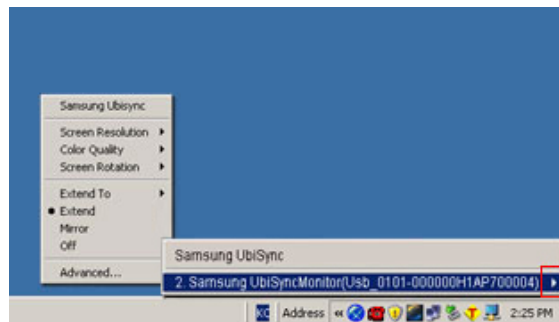
4. Then click "OK" button.

## Configuring the 7" USB Monitor Display Information

1. When the driver setup for the USB monitor is finished, a monitor icon is created in the system tray at the bottom of the monitor screen.



2. Click the monitor icon to display a list of connected USB monitors. Select the monitor for which you want to configure the display settings. You can configure the "Screen Resolution", "Color Quality" and "Screen Rotation" settings for your monitor.



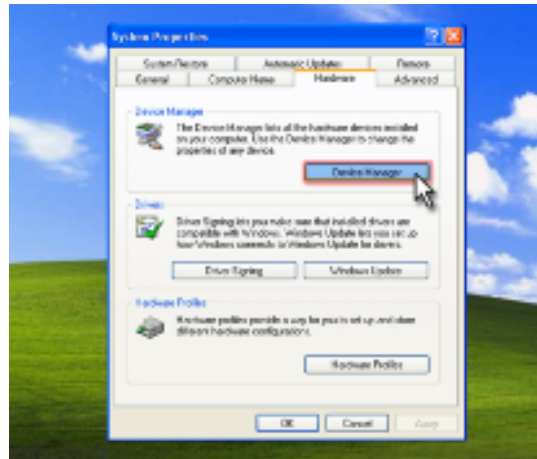
## Checking the configuration

After the installation, you can check the configuration by following these steps.

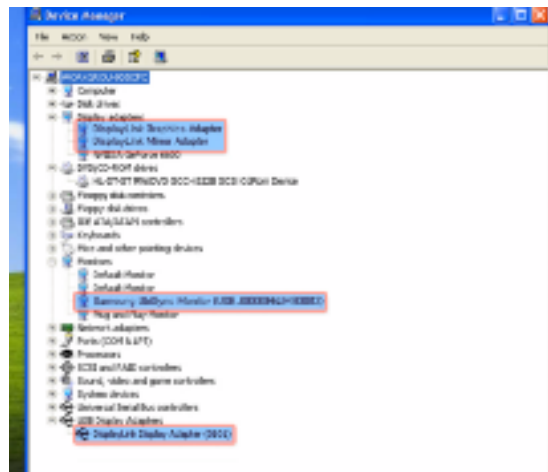
1. Right-click "My Computer", and select "Properties" - "System Properties" - the "Hardware tab".



2. Click "Device Manager".
-



3. A list of the installed device will be displayed, as shown in the figure below.



### - The Initial Screen Settings after Installing the Program

- Applicable mode: Extend mode
- Mode position: To the right of the primary screen
- Mode rotation: 0°

## Restrictions on the 7" USB Monitor

### Supported OS (Operating Systems)

- Windows XP
  - Service Pack 1 or earlier: Unsupported
  - Service Pack 2 or later: Supported
- Windows 2000
  - Service Pack 3 or earlier: Not Supported
  - Service Pack 4 or later: Supported
- Windows Server 2003: Not Supported

- Windows Vista: Supported.

To check the information on the operating system of your PC, right-click "My Computer" on the "Windows Desktop" and select "Properties" from the displayed menu. Check the information in the "General" tab of the "Computer Properties" window.

1. Because this USB monitor is recognized as a USB device, the DOS screen that appears for general monitors when a PC is booting up is not displayed.
2. You cannot use the USB monitor for software using 3D hardware acceleration.
  - Real Player (Expansion mode is not supported.)
  - For most 3D games
  - Programs running on the base of Direct X
3. Supported movie programs
  - Power DVD
  - Win DVD (Version 5 onwards)
  - Windows Media Player (Version 10 or later is supported.)
  - VLC
4. This monitor does not support the MagicTune program.
  - The MagicRotation function may not function normally.
  - If the MagicTune program is installed on your PC, it may not be compatible with this monitor.
5. The USB monitor may not work normally with USB 1.0.
6. If the graphics card of your PC does not support WDDM, the extended mode may not be available in Windows Vista.

Example) Some versions of the Matrox Card

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# Troubleshooting

## Check List



### Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

## There is no image on the screen. I cannot turn on the monitor.

- Q: Check whether the USB cable is connected correctly. Check whether the USB driver is installed.
- A: The USB monitor is recognized as a general USB device on a PC. If you turn the monitor on or off quickly and repeatedly, a USB device problem may occur. Refer to the USB device Troubleshooting section on the Microsoft customer support website.
1. Right-click the "My Computer" and click on "Properties"
  2. The Device Manager is displayed.
  3. From the "Action" menu, click "Scan for hardware changes". Reboot your PC.

## The screen of the USB monitor freezes.

- Q: Check the "Hardware acceleration" setting for your USB monitor in the "Display Properties" window.
- A: Set the "Hardware acceleration" value to "Full".
- For more information on how to configure the settings, click [here](#).
1. Right-click the "Windows Desktop" and click on "Properties".
  2. The "Display Properties" window appears.  
Select the "Settings" tab and click on "Advanced".
  3. If the "Properties" window for your monitor is displayed, select the "Troubleshoot" tab. Move the "Hardware acceleration" slide to "Full".

## My USB monitor is connected but the screen is blank.

- Q: Does the Auto Installation program run when your USB monitor is connected?
- A: Install the "USB Monitor Driver" from the provided CD. For more information on how to install the driver, refer to "Installing and Using the Software".

## I have connected the USB monitor but it does not boot up...

- Q: For the One-Board Type computer which uses an i815 chipset motherboard, change the Legacy USB support option to [Disabled] in the BIOS Setup menu and reboot the computer.
- A: (Example) Phoenix BIOS
- If you turn on the computer, the "Press F2 to enter SETUP" message is displayed on the bottom of the screen. Press [F2] to display the BIOS Setup menu.
-

A: - Configuring the Settings

Set the Advanced -> Peripheral Configuration (Integrated Peripherals) -> Legacy USB Support item to [Enabled]. Save the settings and reboot the computer.

A: - Entering the BIOS Setup screen may differ for each BIOS company. Refer to the user manual for your PC.

For more information, visit the Microsoft website.

## Q & A

Q: How I can clone or extend screen mode?

A: Open the "Display Properties" window and select the "Settings" tab,

Q: How can I remove the "USB Monitor Installation Program" completely?

A: Click "Add/Remove Programs" in the "Control Panel". A list of "currently installed programs" is displayed.

Select "Samsung UbiSync Monitor" from the list and click "Remove".

Q: The screen size of the USB monitor is larger than the actual monitor size.

A: If the primary monitor has a high resolution, screens are expanded beyond the recommended resolution in Clone mode (USB monitor).

Q: The screen size of the USB monitor is smaller than the actual monitor size. The screen is centered on the monitor.

A: If the primary monitor has a high resolution, screens are smaller than the recommended resolution in Clone mode (USB monitor).

Q: I disconnected or turned off my USB monitor but my PC still displays the old monitor information in the Display Properties window.

A: The deactivated USB monitors are such that the power to them is turned off or their USB cables are disconnected. To remove this information, you have to remove the "Samsung UbiSync Monitor" program from "Add/Remove Programs" in the "Control Panel".

If you remove the program you cannot use all the connected USB monitors.

If you want to use the USB monitor again, you have to setup the installation program again.

Q: Icons and photos are broken or jagged in Clone mode (USB monitor).

A: This occurs because Windows does not send the screen updating information to Clone mode if Extended mode is active on a single PC.

We recommend using the monitor in Extend mode.



### Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

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# Specifications

## General

<b>General</b>	
Model Name	SyncMaster U70
<b>LCD Panel</b>	
Size	7" diagonal ( 17 cm)
Display area	152.4 mm(H) x 91.4 mm(V)
Pixel Pitch	0.1905 mm(H) x 0.1905 mm(V)
<b>Synchronization</b>	
Horizontal	30 ~ 35 kHz
Vertical	59 ~ 62 Hz
<b>Display Color</b>	
16.7M	
<b>Resolution</b>	
Optimum resolution	800x480@60Hz
Maximum resolution	800x480@60Hz
<b>Input Signal, Terminated</b>	
USB interface (Compliant Digital RGB)	
USB Format	
TTL level (V high $\geq$ 2.0 V, V low $\leq$ 0.8 V)	
<b>Maximum Pixel Clock</b>	
40 MHz (USB Mode)	
<b>Power Supply</b>	
DC 5V (USB Power) (+/- 10 %)	
<b>Signal Cable</b>	
USB Cable (1 up to 2 down), Detachable	
<b>Dimensions (W x H x D) / Weight (Simple Stand)</b>	
184.0 x 124.0 x 43.6 mm (7.2 x 4.9 x 1.7 inch) / 0.37kg (0.81 lbs)	



Design and specifications are subject to change without prior notice.



This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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## Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 800 x 480	29.738	59.476	29.500	+/+



### Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

### Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

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# Information

## PRODUCT INFORMATION (Image Retention Free)

LCD Monitors and TVs may have image retention when switching from one image to another especially after displaying a stationary image for a long time.

This guide is to demonstrate correct usage of LCD products in order to protect them from Image retention.

### *Warranty*

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

### *What is Image retention ?*

During normal operation of a LCD panel, pixel image retention doesn't occur. However, if the same image is displayed for a long time, a slight difference in electric charge accumulates between the two electrodes which encase the liquid crystal. This may cause the liquid crystal to build up in a certain areas of the display. Thus, the previous image is retained when switching to a new video image. All display products, including LCD, are subject to image retention. This is not a product defect.

Please follow the suggestions below to protect your LCD from image retention.

### *Power Off, Screen Saver, or Power Save Mode*

Ex)

- Turn the power off when using a stationary pattern.
  - Turn the power off for 4 hours after 20 hours in use
  - Turn the power off for 2 hours after 12 hours in use
- Use a Screen saver if possible
  - Screen saver in one color or a moving image is recommended.
- Set the Monitor to power off with the PC Display Properties Power Scheme.

### *Suggestions for specific applications*

Ex) Airports, Transit Stations, Stock Markets, Banks, and Controlling Systems We recommend that you follow set up of your display system program as below:

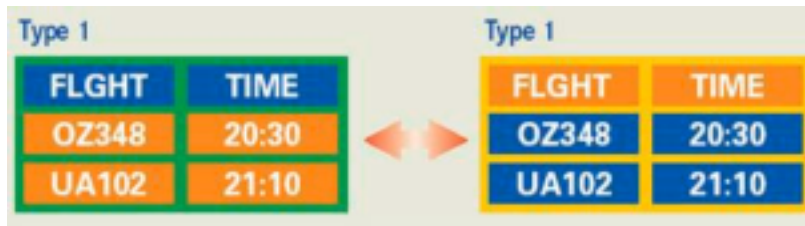
### *Display Information together with Logo or Moving image cycle.*

Ex) Cycle : Display Information for 1 hour followed by a Display Logo or moving image for 1 minute.

### *Change the Color Information periodically (Use 2 different colors).*

Ex) Rotate the Color Information with 2 colors every 30 minutes.

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Avoid using a combination of characters and background color with large difference in luminance.

Avoid using Grey colors, which can cause Image retention easily.

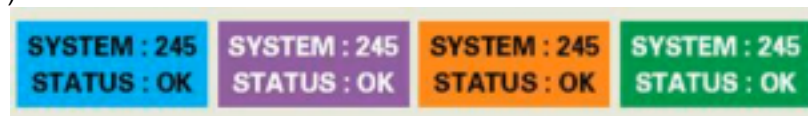
- Avoid: Colors with big difference in luminance (Black & White, Grey)

Ex)



- Recommended settings: Bright colors with little difference in luminance
- Change the characters color and background color every 30 minutes

Ex)



- Every 30 minutes, change the characters with movement.

Ex)

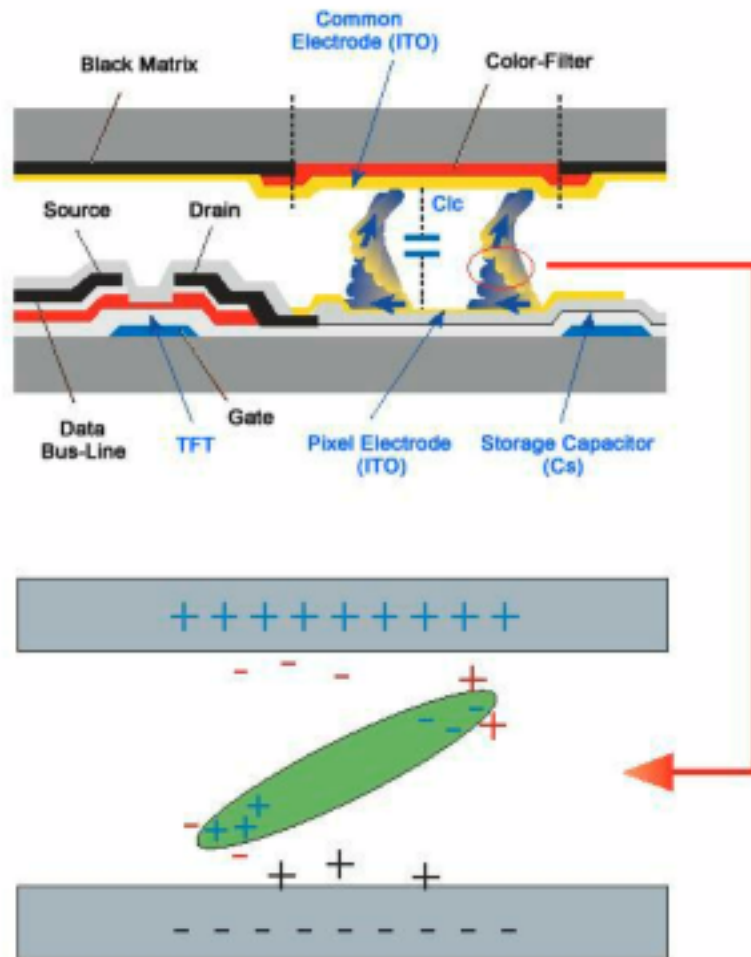


- *The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.*

Image retention may not occur when a LCD panel is operated under normal conditions.

Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed.

To prevent this, the accumulated voltage difference must be decreased.



➔ *Our LCD Monitor satisfies ISO13406-2 Pixel fault Class II*

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# Appendix

## Contact SAMSUNG WORLDWIDE



If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

### North America

U.S.A	1-800-SAMSUNG(726-7864)	<a href="http://www.samsung.com/us">http://www.samsung.com/us</a>
CANADA	1-800-SAMSUNG(726-7864)	<a href="http://www.samsung.com/ca">http://www.samsung.com/ca</a>
MEXICO	01-800-SAMSUNG (726-7864)	<a href="http://www.samsung.com/mx">http://www.samsung.com/mx</a>

### Latin America

ARGENTINE	0800-333-3733	<a href="http://www.samsung.com/ar">http://www.samsung.com/ar</a>
BRAZIL	0800-124-421	<a href="http://www.samsung.com/br">http://www.samsung.com/br</a>
	4004-0000	
CHILE	800-SAMSUNG(726-7864)	<a href="http://www.samsung.com/cl">http://www.samsung.com/cl</a>
COLOMBIA	01-8000112112	<a href="http://www.samsung.com/co">http://www.samsung.com/co</a>
COSTA RICA	0-800-507-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
ECUADOR	1-800-10-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
EL SALVADOR	800-6225	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
GUATEMALA	1-800-299-0013	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
HONDURAS	800-7919267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
JAMAICA	1-800-234-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
NICARAGUA	00-1800-5077267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
PANAMA	800-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
PUERTO RICO	1-800-682-3180	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
REP. DOMINICA	1-800-751-2676	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
VENEZUELA	0-800-100-5303	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>

### Europe

AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	<a href="http://www.samsung.com/at">http://www.samsung.com/at</a>
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## Europe

BELGIUM	02 201 2418	<a href="http://www.samsung.com/be">http://www.samsung.com/be</a> (Dutch)
		<a href="http://www.samsung.com/be_fr">http://www.samsung.com/be_fr</a> (French)
CZECH REPUBLIC	800 - SAMSUNG (800-726786)	<a href="http://www.samsung.com/cz">http://www.samsung.com/cz</a>
Distributor pro Českou republiku: Samsung Zrt., česká organizační složka Vyskočilova 4, 14000 Praha 4		
DENMARK	8 - SAMSUNG (7267864)	<a href="http://www.samsung.com/dk">http://www.samsung.com/dk</a>
EIRE	0818 717 100	<a href="http://www.samsung.com/ie">http://www.samsung.com/ie</a>
FINLAND	30 - 6227 515	<a href="http://www.samsung.com/fi">http://www.samsung.com/fi</a>
FRANCE	01 4863 0000	<a href="http://www.samsung.com/fr">http://www.samsung.com/fr</a>
GERMANY	01805 - SAMSUNG (7267864, € 0.14/Min)	<a href="http://www.samsung.de">http://www.samsung.de</a>
HUNGARY	06-80-SAMSUNG (726-7864)	<a href="http://www.samsung.com/hu">http://www.samsung.com/hu</a>
ITALIA	800-SAMSUNG (726-7864)	<a href="http://www.samsung.com/it">http://www.samsung.com/it</a>
LUXEMBURG	02 261 03 710	<a href="http://www.samsung.com/lu">http://www.samsung.com/lu</a>
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	<a href="http://www.samsung.com/nl">http://www.samsung.com/nl</a>
NORWAY	3 - SAMSUNG (7267864)	<a href="http://www.samsung.com/no">http://www.samsung.com/no</a>
POLAND	0 801 1SAMSUNG (172678)	<a href="http://www.samsung.com/pl">http://www.samsung.com/pl</a>
	022 - 607 - 93 - 33	
PORTUGAL	808 20 - SAMSUNG (7267864)	<a href="http://www.samsung.com/pt">http://www.samsung.com/pt</a>
SLOVAKIA	0800 - SAMSUNG (726-7864)	<a href="http://www.samsung.com/sk">http://www.samsung.com/sk</a>
SPAIN	902 - 1 - SAMSUNG (902 172 678)	<a href="http://www.samsung.com/es">http://www.samsung.com/es</a>
SWEDEN	075 - SAMSUNG (726 78 64)	<a href="http://www.samsung.com/se">http://www.samsung.com/se</a>
SWITZERLAND	0848 - SAMSUNG (7267864, CHF 0.08/min)	<a href="http://www.samsung.com/ch">http://www.samsung.com/ch</a>
U.K	0845 SAMSUNG (7267864)	<a href="http://www.samsung.com/uk">http://www.samsung.com/uk</a>

## CIS

ESTONIA	800-7267	<a href="http://www.samsung.com/ee">http://www.samsung.com/ee</a>
LATVIA	8000-7267	<a href="http://www.samsung.com/lv">http://www.samsung.com/lv</a>
LITHUANIA	8-800-77777	<a href="http://www.samsung.com/lt">http://www.samsung.com/lt</a>
KAZAKHSTAN	8-10-800-500-55-500	<a href="http://www.samsung.com/kz_ru">http://www.samsung.com/kz_ru</a>
KYRGYZSTAN	00-800-500-55-500	
RUSSIA	8-800-555-55-55	<a href="http://www.samsung.ru">http://www.samsung.ru</a>
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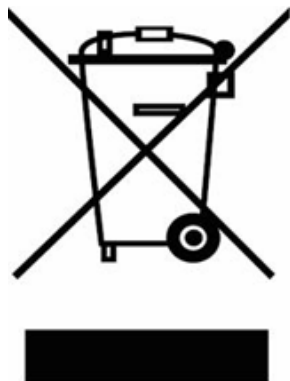
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## Correct Disposal

### Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only



(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

## Authority

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